
Article

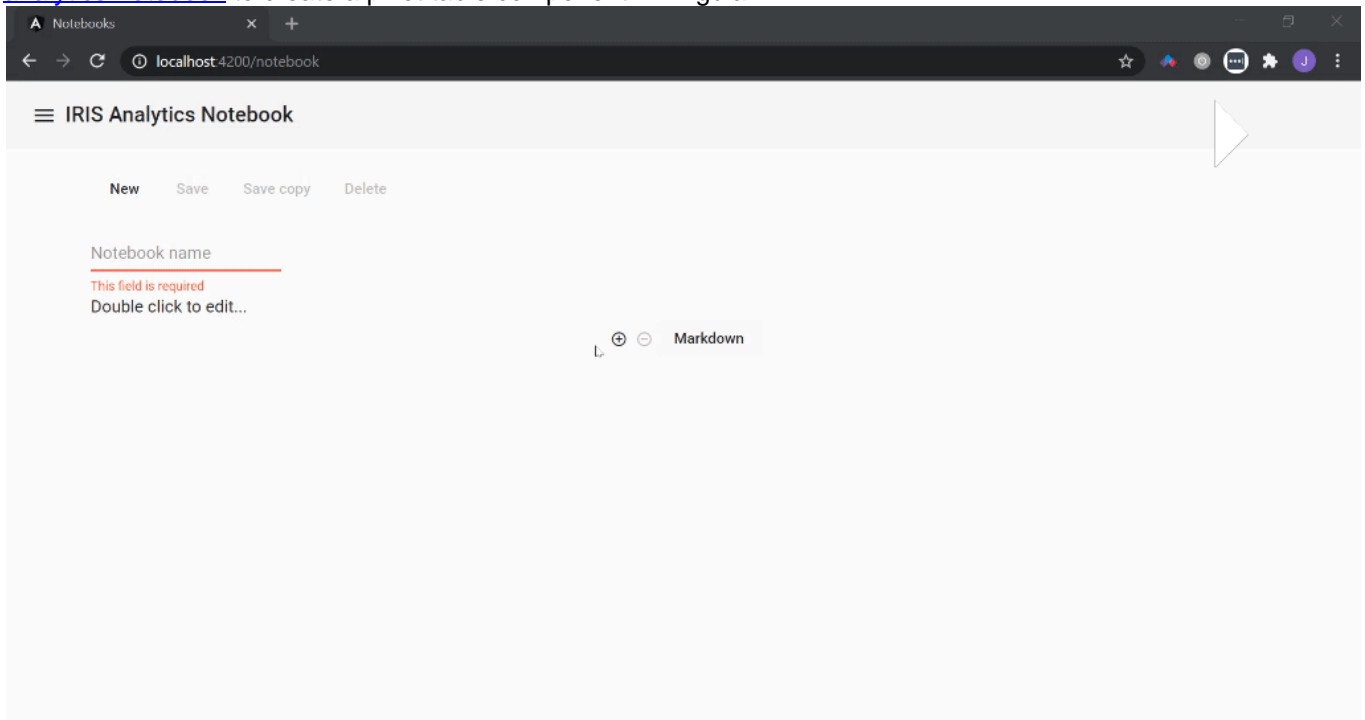
[José Pereira](#) · Dec 26, 2020 2m read

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Using the IRIS Analytics Business Intelligence REST API

Did you know that you can get IRIS Analytics features as an REST API?

In this article I'll show some endpoints of IRIS Analytics [Business Intelligence REST API](#), used in my project [iris-analytics-notebook](#) to create a pivot table component in Angular.



Getting all cubes in namespace

Method: POST

Endpoint:

```
/api/deepsee/v1/:namespace/Info/Cubes
```

Example:

```
http://localhost:52773/api/deepsee/v1/myapp/Info/Cubes
```

Response example:

<https://jsfiddle.net/jrpereirajr/74ep301q/15/embedded/result/>

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Getting all dimensions from a specified cube:

Method: POST

Endpoint:

`/api/deepsee/v1/:namespace/Info/Filters/:cube`

Example:

`http://localhost:52773/api/deepsee/v1/myapp/Info/Filters/AsthmaPatients`

Response example:

[//jsfiddle.net/jrpereirajr/74ep301q/17/embedded/result/](https://jsfiddle.net/jrpereirajr/74ep301q/17/embedded/result/)

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Getting all measures from a specified cube:

Method: POST

Endpoint:

`/api/deepsee/v1/:namespace/Info/Measures/:cube`

Example:

`http://localhost:52773/api/deepsee/v1/myapp/Info/Measures/AsthmaPatients`

Response example:

[//jsfiddle.net/jrpereirajr/74ep301q/19/embedded/result/](https://jsfiddle.net/jrpereirajr/74ep301q/19/embedded/result/)

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Getting all members from a specified dimension:

Method: POST

Endpoint:

`/api/deepsee/v1/:namespace/Info/FilterMembers/:cube/:dimension`

Example:

```
http://localhost:52773/api/deepsee/v1/myapp/Info/FilterMembers/AsthmaPatients/[AgeD].[H1].[Age Group]
```

Response example:

<https://jsfiddle.net/jrpereirajr/74ep301q/20/embedded/result/>

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Executing a MDX query:

Method: POST

Endpoint:

```
/api/deepsee/v1/:namespace/Data/MDXExecute
```

Body:

```
{
  "MDX": "<query text>"
}
```

Example:

```
http://localhost:52773/api/deepsee/v1/myapp/Data/MDXExecute
```

```
{
  "MDX": "SELECT NON EMPTY HEAD(NONEMPTYCROSSJOIN([GenD].[H1].[Gender].Members, {[Measures].[Allergy Count]}), 2000, SAMPLE) ON 0,NON EMPTY [AgeD].[H1].[Age Group].Members ON 1 FROM [AsthmaPatients] %FILTER %OR({[PatGrpD].[H1].[Tested].&[Yes]})"
}
```

Response example:

<https://jsfiddle.net/jrpereirajr/74ep301q/24/embedded/result/>

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Now, you can grab all raw data from server, you can use a lot of JavaScript libraries and/or frameworks to create rich UI. You can check out an example using Angular and Angular Material [here](#).

[#Analytics #InterSystems IRIS #InterSystems IRIS BI \(DeepSee\)](#)
[Check the related application on InterSystems Open Exchange](#)

Source URL: <https://community.intersystems.com/post/using-iris-analytics-business-intelligence-rest-api>